

M Table CT3. Total End-Use Energy Consumption Estimates, Selected Years, 1960-2016, Minnesota

I N N E S O T A	Coal	Natural Gas ^a	Petroleum							Hydro-electric Power ^{f,g}	Biomass		Geo-thermal ^g	Retail Electricity Sales	Electrical System Energy Losses ^l	Total ^{g,k}		
			Distillate Fuel Oil	HGL ^b	Jet Fuel ^c	Motor Gasoline ^d	Residual Fuel Oil	Other ^e	Total		Million Kilowatt-hours	Wood and Waste ^{g,h}	Losses and Co-products ⁱ					
	Year	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels														
1960	3,543	131	15,994	4,525	472	32,583	6,419	9,046	69,040	156	--	--	--	--	8,821	--		
1970	2,595	283	21,805	8,887	3,491	44,122	4,316	10,277	92,898	168	--	--	--	--	20,715	--		
1980	1,200	278	21,215	7,697	5,142	46,211	2,821	8,630	91,716	145	--	--	--	--	32,998	--		
1990	1,462	285	19,485	5,966	5,099	47,760	959	12,185	91,455	172	--	--	--	--	47,167	--		
2000	2,097	352	24,599	9,844	13,301	61,120	929	14,258	124,051	248	--	--	--	--	59,782	--		
2001	1,255	330	24,796	8,974	11,588	62,236	1,096	14,489	123,179	186	--	--	--	--	60,687	--		
2002	1,367	358	24,541	11,302	11,064	63,503	987	13,141	124,540	45	--	--	--	--	62,162	--		
2003	1,269	355	25,130	10,862	11,977	64,638	1,022	14,123	127,753	93	--	--	--	--	63,087	--		
2004	1,312	347	26,327	11,662	12,505	64,804	1,399	14,258	130,955	132	--	--	--	--	63,340	--		
2005	1,372	342	26,207	11,161	12,656	64,697	1,631	15,668	132,020	130	--	--	--	--	66,019	--		
2006	1,362	328	25,886	10,363	11,773	64,432	829	15,516	128,798	96	--	--	--	--	66,770	--		
2007	1,417	354	26,937	10,401	11,275	64,627	1,278	15,379	129,898	96	--	--	--	--	68,231	--		
2008	1,419	400	26,405	9,701	10,238	62,903	2,026	13,111	124,385	118	--	--	--	--	68,794	--		
2009	1,221	370	23,040	10,587	9,200	61,240	686	12,083	116,836	134	--	--	--	--	64,004	--		
2010	1,347	387	25,161	8,133	9,081	61,587	585	R 12,360	R 116,906	127	--	--	--	--	67,800	--		
2011	1,331	393	26,412	7,955	9,372	58,738	520	R 12,303	R 115,301	117	--	--	--	--	68,533	--		
2012	1,134	365	26,575	7,345	8,973	60,715	128	R 12,454	R 116,190	74	--	--	--	--	67,989	--		
2013	1,276	418	27,149	9,688	5,837	60,569	95	R 12,505	R 115,845	90	--	--	--	--	68,644	--		
2014	1,247	444	27,691	11,296	5,367	60,631	67	R 11,724	R 116,776	19	--	--	--	--	68,719	--		
2015	966	378	25,616	9,046	4,972	R 62,346	92	R 12,385	R 114,458	115	--	--	--	--	66,579	--		
2016	1,065	385	27,730	9,028	4,815	63,993	121	12,657	118,343	130	--	--	--	--	66,546	--		
Trillion Btu																		
1960	76.8	135.9	93.2	17.6	2.6	171.2	40.4	54.3	379.2	1.7	25.3	NA	NA	NA	30.1	648.9	74.4	723.3
1970	54.2	283.9	127.0	34.0	19.7	231.8	27.1	63.6	503.2	1.8	23.2	NA	NA	NA	70.7	937.0	171.0	1,108.0
1980	21.0	277.0	123.6	28.7	29.1	242.7	17.7	53.7	495.5	1.5	46.6	NA	NA	NA	112.6	954.2	270.5	1,224.7
1990	27.0	286.4	113.5	22.2	28.9	250.9	6.0	76.7	498.3	1.8	41.1	0.7	0.1	0.3	160.9	1,018.7	382.3	1,401.0
2000	40.5	357.4	143.1	36.7	75.4	318.7	5.8	90.3	670.1	2.5	45.6	13.4	0.2	0.3	204.0	1,333.9	416.8	1,750.7
2001	24.4	334.2	144.3	33.4	65.7	324.5	6.9	90.9	665.7	1.9	48.9	15.4	0.3	0.3	207.1	1,298.0	424.3	1,722.3
2002	26.2	360.9	142.8	41.7	62.7	330.9	6.2	82.3	666.6	0.5	38.5	18.2	0.3	0.2	212.1	1,323.5	463.3	1,786.8
2003	24.0	357.4	146.2	40.6	67.9	336.3	6.4	88.6	686.1	0.9	33.5	21.5	0.4	0.2	215.3	1,339.2	525.6	1,864.8
2004	24.9	349.6	153.2	43.2	70.9	337.0	8.8	90.0	703.1	1.3	44.8	23.6	0.4	0.2	216.1	1,364.0	501.0	1,865.1
2005	26.1	346.0	152.5	41.4	71.8	336.3	10.3	99.0	711.1	1.3	47.8	24.4	0.4	0.1	225.3	1,382.4	476.7	1,859.1
2006	25.7	333.1	150.2	38.4	66.8	334.5	5.2	97.6	692.6	1.0	44.7	31.5	0.5	0.1	227.8	1,357.0	475.7	1,832.7
2007	27.0	360.6	155.8	38.5	63.9	333.2	8.0	96.6	696.0	0.9	46.3	33.5	0.6	0.1	232.8	1,397.9	497.6	1,895.5
2008	27.2	409.9	152.6	36.2	58.1	322.4	12.7	82.2	664.2	1.2	46.9	40.0	0.7	0.2	234.7	1,425.0	487.8	1,912.8
2009	23.4	381.6	133.2	39.0	52.2	312.4	4.3	75.6	616.7	1.3	48.6	52.3	0.9	0.2	218.4	1,343.4	444.1	1,787.5
2010	25.7	390.7	145.4	31.2	51.5	312.7	3.7	R 77.4	R 621.9	1.2	R 52.4	63.4	1.0	0.2	231.3	R 1,388.0	473.4	R 1,861.3
2011	25.4	396.5	152.5	30.5	53.1	297.7	3.3	R 76.8	R 613.9	1.1	R 50.9	62.6	1.0	0.2	233.8	R 1,385.7	469.8	R 1,855.6
2012	21.4	372.0	153.4	28.2	50.9	307.4	0.8	R 77.8	R 618.5	0.7	R 48.6	56.9	1.1	0.3	232.0	R 1,351.6	474.5	R 1,826.1
2013	24.2	427.7	156.6	37.2	33.1	306.6	0.6	R 78.1	R 612.2	0.9	R 53.2	55.3	1.1	0.3	234.2	R 1,409.2	459.4	R 1,868.7
2014	23.4	458.5	159.7	43.3	30.4	306.8	0.4	R 73.2	R 613.9	0.2	R 58.9	61.8	1.1	0.4	234.5	R 1,452.8	471.4	R 1,924.2
2015	17.6	392.7	147.8	34.7	28.2	R 315.5	0.6	R 77.4	R 604.1	1.1	R 50.9	61.0	1.1	0.4	227.2	R 1,356.3	428.8	R 1,785.2
2016	19.8	398.1	159.9	34.6	27.3	323.7	0.8	79.0	625.3	1.2	49.8	62.1	1.1	0.5	227.1	1,385.2	421.7	1,806.9

^a Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.

^b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."

^d Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^e Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

^f Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

^g There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^h Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

ⁱ Losses and co-products from the production of fuel ethanol.

^j Solar thermal and photovoltaic energy. Includes a small amount of wind energy consumed by commercial and industrial utility-scale facilities.

^k Beginning in 2009, includes wind energy consumed by the commercial and industrial sectors. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^l Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

-- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.